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Substitute for form 1448/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 7

Complete If Known

Application Number	10/729,584
Filing Date	December 4, 2003
First Named Inventor	Mark E. Tuttle et al.
Art Unit	2876
Examiner Name	Jamara A. Franklin
Attorney Docket Number	MI40-367

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4,262,631	4/1981	Kubacki	
		US- 4,067,011	1/1978	Althaus	
		US- 4,068,232	1/1978	Meyers et al.	
		US- 4,129,855	12/1978	Rodnan	
		US- 4,177,466	12/1978	Reagan	
		US- 4,442,430	4/1984	Schneider	
		US- 4,745,401	5/1988	Montean	
		US- 4,862,176	8/1989	Voies	
		US- 4,888,591	12/1989	Landt et al.	
		US- 4,910,521	3/1990	Mellon	
		US- 5,065,160	11/1991	Kawakami	
		US- 3,706,094	12/1972	Cola et al.	
		US- 3,750,167	7/1973	Gelman et al.	
		US- 3,780,368	7/1973	Northeved et al.	
		US- 3,832,530	8/1974	Raltboeck et al.	
		US- 3,849,633	11/1974	Raltboeck et al.	
		US- 4,049,969	9/1977	Salonimer et al.	
		US- 4,075,632	2/1978	Baldwin et al.	
		US- 4,226,361	10/1980	Taylor	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 4120265	1/1992	DE (English Abstract)		
		GB 1567784	5/1980	GB (Full Reference)		
		JP4-75191	3/1992	JP (Full Reference)		
		08267974-A	10/1996	JP (Full Reference)		
		2000339437-A	12/2000	JP (Full Reference)		
		DE 4120265	1/1992	DE (Full Reference)		

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 7

Complete if Known

Application Number	10/729,584
Filing Date	December 4, 2003
First Named Inventor	Mark E. Tuttle et al.
Art Unit	2876
Examiner Name	Jamara A. Franklin
Attorney Docket Number	MI40-367

U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
		US- 4,331,957	5/1982	Enander et al.	
		US- 4,399,441	8/1983	Vaughn et al.	
		US- 4,418,411	11/1983	Strietzel	
		US- 4,453,074	6/1984	Weinstein	
		US- 4,484,355	11/1984	Henke et al.	
		US- 4,649,233	3/1987	Bass et al.	
		US- 4,680,724	7/1987	Sugiyama et al.	
		US- 4,724,427	2/1988	Carroll	
		US- 4,727,560	2/1988	Van Zanten et al.	
		US- 4,746,618	5/1988	Nath et al.	
		US- 4,746,830	5/1988	Holland	
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		US- 4,783,646	11/1988	Matsuzaki	
		US- 4,827,395	5/1989	Anders et al.	
		US- 4,854,328	8/1989	Pollack	
		US- 4,882,294	11/1989	Christenson	
		US- 4,908,502	3/1990	Jackson	
		US- 4,911,217	3/1990	Dunn et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		JP 4-75191	3/1992	JP (English Abstract)		
		08267974-A	10/1996	JP (English Abstract)		
		2000339437-A	12/2000	JP (English Abstract)		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3 of 7**Complete if Known**

Application Number	10/729,584
Filing Date	December 4, 2003
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		Number-Kind Code ² (if known)			
		US- 4,918,631	4/1990	Hara et al.	
		US- 4,926,182	5/1990	Ohta et al.	
		US- 4,942,327	7/1990	Watanabe et al.	
		US- 4,956,645	9/1990	Guena et al.	
		US- 4,960,983	10/1990	Inoue	
		US- 4,962,415	10/1990	Yamamoto et al.	
		US- 5,008,776	4/1991	Queyssac	
		US- 5,023,573	6/1997	Adam	
		US- 5,068,894	11/1991	Hoppe	
		US- 5,095,240	3/1992	Nysen et al.	
		US- 5,144,314	9/1992	Malmberg et al.	
		US- 5,148,504	9/1992	Levi et al.	
		US- 5,153,710	10/1992	McCain	
		US- 5,166,502	11/1992	Rendleman et al.	
		US- 5,200,362	4/1993	Lin et al.	
		US- 5,214,410	5/1993	Verster	
		US- 5,274,221	12/1993	Matsubara	
		US- 5,302,954	4/1994	Brooks et al.	
		US- 5,313,211	5/1994	Tokuda et al.	

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Examiner Initials ¹	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
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Sheet 4 of 7

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Application Number	10/729,584
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First Named Inventor	Mark E. Tuttle et al.
Art Unit	2876
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U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
		US- 5,326,652	7/1994	Lake	
		US- 5,337,063	8/1994	Takahira	
		US- 5,340,968	8/1994	Watanabe et al.	
		US- 5,350,645	9/1994	Lake et al.	
		US- 5,414,427	5/1995	Gunnarsson	
		US- 5,416,423	5/1995	DeBorde	
		US- 5,432,027	7/1995	Tuttle et al.	
		US- 5,434,397	7/1995	Diehl et al.	
		US- 5,448,110	9/1995	Tuttle et al.	
		US- 5,480,462	1/1996	Tuttle	
		US- 5,486,431	1/1996	Tuttle et al.	
		US- 5,494,495	2/1996	Tuttle	
		US- 5,497,140	3/1996	Tuttle	
		US- 5,510,074	4/1996	Rose	
		US- 5,558,679	9/1996	Tuttle	
		US- 5,572,226	11/1996	Tuttle	
		US- 5,603,157	2/1997	Lake et al.	
		US- 5,605,487	2/1997	Lake	
		US- 5,612,513	3/1997	Tuttle et al.	

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Sheet 5

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		US- 5,619,066	4/1997	Curry et al.	
		US- 5,621,412	4/1997	Sharpe et al.	
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		US- 5,719,586	2/1998	Tuttle	
		US- 5,725,967	3/1998	Tuttle	
		US- 5,820,716	10/1998	Tuttle	
		US- 5,937,512	4/1999	Lake et al.	
		US- 6,220,516	4/2001	Tuttle et al.	
		US- 4,827,110	5/1989	Rossi et al.	
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First Named Inventor	Mark E. Tuttle et al.
Art Unit	2876
Examiner Name	Jamara A. Franklin
Attorney Docket Number	MI40-367

Sheet 6

of

7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Casson, K. et al.; High Temperature Packaging: Flip Chip on Flexible Laminate; 1/1992; Surface Mount Technology.	
		Johnson, R.W.; "Polymer Thick Films: Tehcnology and Materials"; 7/1982; Circuits Manufacturing (reprint).	
		Gilleo, K.; "Using SM Devices on Flexible Circuitry"; 3/1986 Electri-onics; pp. 20-23.	
		Kanarzibis, M.G.; "Conductive Polymers"; 12/3/1990; Chemical and Engineering News - American Chemical Society; pp. 36-54.	
		The New IEEE Standard Dictionary of Electrical and Electronic Terms; 5th Ed.; 1993; pp. 662.	
		Pierce, C.W.; "Epitaxy"; VLSI Technology; S.M. Sze editor; McGraw-Hill Book Co. 1983, pp.55.	
		Rice, J.; "Silica-coated films go to commerical in '93"; "Food Processing"; 10/1993.	
		Nelson, R.J.; "Plasma Enhanced Chemical vapor Deposition of SiOx Coatings for Gas Diffusion Barrier Enhancement of Flexible Polymerized Compounds"; 7/9/1993; Society for	
		Rizika, A.; "Vapor Coating with SiOx: the Flexible Glass Barrier"; 11/8-11/1992; Pack Expo '92 Conference, Chicago, IL.	
		"Airco coating technology announces contracts in its toll coating program"; Airco press release; 3/26/1993.	

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Sheet	7	of	7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Felts, J.F.; "Transparent Barrier Coatings Update: Flexible Substrates; Airco Coating Technology; Publication Date Not Shown; (mailed by Airco to Mark Tuttle 9/21/93.)	
		Felts, J.F.; "Transparent Gas Barrier Technologies; Airco Coating Technology; Publication Date Not Shown; (mailed by Airco to Mark Tuttle 9/21/93.)	
		Ang, P.; Progress of QLF Barrier Coating; Airco Coating Technology; Publication Date Not Shown; (mailed by Airco to Mark Tuttle 9/21/93.)	
		S/N: 08/602,686; filed 02/16/1996; "Method of Manufacturing an Enclosed Transceiver"; Tuttle, Mark et al.; now abandoned.	
		S/N: 08/538,826; filed 10/05/1995; "Method for Surface Mounting Electrical Components to a Substrate"; Tuttle, Mark et al.; now abandoned.	
		S/N: 08/489,185; filed 06/09/1995; "Enclosed Transceiver"; Tuttle, John et al.; now abandoned.	
		Untitled page stating moisture barrier performance of QLF barrier coating on 12μpolyester film, Sample ID# R9-930316; Airco Coating Technology; Publication Date Not Shown; (mailed by Airco to Mark Tuttle 9/12/1993)	
		Merriam-Webster Collegiate Dictionary; 1993; p. 563.	

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